

# Glenn Research Center, Environmental Programs Manual

## Chapter 27 - UNDERGROUND STORAGE TANKS

**NOTE:** The current version of this Chapter is maintained and approved by the Environmental Management Office (EMO). This last revision date of this chapter is July 2004. If you are referencing paper copies, please verify that it is the most current version before use. The current version is maintained on the Glenn Research Center intranet at <http://osat-ext.grc.nasa.gov/emo/pub/epm/epm-contents.pdf>. Approved by: EMO Chief, Michael Blotzer {mailto:Michael.J.Blotzer@nasa.gov}.

### PURPOSE

This chapter sets forth Glenn Research Center (GRC) policies and requirements for the design, construction and operation, as well as maintenance, monitoring and reporting for underground petroleum storage tanks. The provisions herein are in accord with the national effort to comply with mandated regulations. This chapter conforms to the GRC EMS as defined in this Manual Chapter 1 and supports GRC environmental policy, promoting pollution prevention, regulatory compliance, and continuous improvement. Following the guidelines in this chapter will help achieve the GRC regulatory compliance objectives and targets. Achievement of these objectives and targets can be tracked through the audit results and CPAR records.

### APPLICABILITY

This chapter is applicable to all GRC underground petroleum storage tanks at Lewis Field and at Plum Brook Station.

### REGULATIONS

The following are the authorities that presently regulate UST's at GRC. They are incorporated here by reference. The complete regulatory text should be consulted for details.

40 Code of Federal Regulation Part 280, Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks (UST).

Ohio UST's Law as found in Ohio Revised Code, Title 37 - Health, Safety, and Morals, excerpt from chapter 3737 - Fire Marshall, Fire Safety, Petroleum UST's, as amended.

Ohio Department of Commerce, Fire Marshal Bureau of Underground Storage Tank Regulations (BUSTR), chapter 1301-7-28 and 1301-9-01 through 1301-9-15.

### RESPONSIBILITIES

#### Facilities Division (FD)

- Designs and constructs underground storage facilities in accordance with requirements and standards prescribed by the Ohio State Fire Marshal.
- Provides EMO with information necessary for the preparation of any permits necessary for the removal, installation, and operation of UST's.
- Maintains the project file for the design and construction of UST projects. EMO maintains the official file of any permits and correspondence.
- Operates and maintains underground storage tank facilities at Buildings 12 and 500, in conformance with the standards and requirements prescribed by the authorities listed above.

#### Logistics and Technical Information Division (LTID)

- Maintains daily records of fuel usage, delivery, and consumption.
- Conducts the ordering of fuels for GRC, except for Buildings 12 and 500.
- Coordinates fuel deliveries to tank sites at GRC.
- Reports known or suspected leaks immediately to the Glenn Dispatcher at 911 and then to EMO as specified in the GRC Emergency Preparedness Plan.

### **Waste Management Team (WMT)**

- Coordinates the removal and disposal of groundwater infiltration into the piping sumps at Buildings 102 and 131.

### **Environmental Team (ET)**

- Records related to the responsibilities of FD, LTID, and ET will be used for reports required by the regulations.
- Prepares and submits an annual report of the GRC and PBMO underground storage tank inventory to BUSTR. (Annually by the 1<sup>st</sup> of July).
- Responds to requests for information concerning the environmental aspects of the UST program at GRC.
- Prepares notifications and reporting required by the GRC Spill Prevention, Control, and Countermeasures Plan (SPCC).
- Maintains accurate and complete tank inventory.
- Submits permits for tank installation, operation, maintenance, and closure as required by regulatory agencies.
- Serves as primary point of contact for regulatory agencies regarding UST's.
- Obtains a monthly leak detection report from the Veeder Root monitoring system.

### **Plum Brook Management Office (PBMO)**

- Implements, maintains, and monitors the UST inventory program at Plum Brook.
- Assures the proper and accurate auditing of inventory and monitoring of tank conditions performed by PBMO staff or its contractors.
- Reports suspected leaks to the Glenn Environmental Management Office.
- Following verification, reports leaks to local fire officials and the Ohio Fire Marshal.

### **DEFINITIONS**

#### **Underground Storage Tank (UST)**

A tank and attendant piping containing a regulated substance, the volume of which is 10 percent or more (including the connective piping) below the surface of the ground.

### **RECORDS (maintained by ET)**

- UST Permits
- Closure Reports
- Annual BUSTR Registration
- Notification Reports to Regulators of Leaks and Spills
- Spill Reports
- Veeder Root Reports

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